



Used in Lieu of PTO/SB/08A/B  
(Based on PTO 10-07 version)

<b>Substitute for form 1449/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	08/999,766
				Filing Date	July 23, 1997
				First Named Inventor	Scott A. Moskowitz
				Art Unit	<del>2137</del> 2437
				Examiner Name	P. E. Callahan
Sheet	1	of	1	Attorney Docket Number	69772(53763)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)					

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author ( in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	Photocopy of an audio disc containing a digital watermark. Jan. 10, 2008	

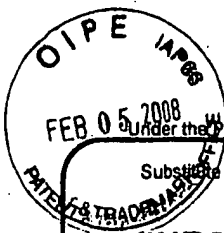
\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Paul Callahan/	Date Considered	08/04/2008
-----------------------	-----------------	--------------------	------------

242621

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./



Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	08/999,766
Filing Date	July 23, 1997
First Named Inventor	Scott A. MOSKOWITZ et al.
Art Unit	<del>2107</del> 2437
Examiner Name	Paul E. CALLAHAN
Attorney Docket Number	80410.0009

Sheet 1 of 3

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-4,939,515	07/03/1990	Adelson	
		US-5,161,210	11/03/1992	Druyvesteyn, et.al.	
		US-5,450,490	09/12/1995	Jensen et.al.	
		US-5,530,751	06/25/1996	Morris	
		US-5,579,124	11/26/1996	Aijala et.al.	
		US-5,721,788	02/24/1998	Powell et.al.	
		US-5,828,325	10/27/1998	Wolose Wicz et.al.	
		US-5,912,972	06/15/1999	Barton	
		US-5,930,377	07/27/1999	Powell et.al.	
		US-5,583,488	12/10/1996	Sala et.al.	
		US-5,748,783	05/05/1998	Rhoads	
		US-6,330,672	12/11/2001	Shur	
		US-5,243,423	09/07/1993	DeJean et.al.	
		US-5,319,735	06/07/1994	Preuss et.al.	
		US-5,113,437	05/12/1992	Best et.al.	
		US-4,876,617	10/24/1989	Best et.al.	
		US-5,379,345	01/03/1995	Greenberg	
		US-5,646,997	07/08/1997	Barton	
		US-4,672,605	06/09/1987	Hustig et.al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		European Patent No. EP0565947A1	10/20/1993	Kuusama, Juha		
		WO 95/14289	05/26/1995	Rhoads, Geoffrey		
		European Patent No. 0581317A2	02/02/1994	Powell, Robert et.al.		
		European Patent No. 0372601A1	06/13/1990	Druyvesteyn, Wm. et.al.		
		W098/37513	08/27/1998	Biggar, Michael et.al.		
		European Patent No. 0651554A	05/03/1995	Eastman Kodak Co.		

Examiner  
Signature

/Paul Callahan/

Date  
Considered

08/04/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 13

Application Number

08/999,766

Filing Date

July 23, 1997

First Named Inventor

Scott A. MOSKOWITZ et al.

Art Unit

~~2197~~ 2437

Examiner Name

Paul E. CALLAHAN

Attorney Docket Number

80410.0009

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-4,748,668	05/31/1998	Shamir, et.al.	
		US-4,789,928	12/06/1988	Fujisaki	
		US-4,908,873	03/13/1990	Philibert, et. al.	
		US-4,980,782	12/25/1990	Ginkel	
		US-5,073,925	12/17/1991	Nagata, et.al.	
		US-5,243,515	09/07/1993	Lee	
		US-5,287,407	02/15/1994	Holmes	
		US-5,428,606	06/27/1995	Moskowitz	
		US-5,365,586	11/15/1994	Indeck, et. al.	
		US-5,394,324	02/28/1995	Clearwater	
		US-5,408,505	04/18/1995	Indeck, et. al.	
		US-5,412,718	05/02/1995	Narasimhalv, et.al	
		US-5,487,168	01/23/1996	Gelner, et. al.	
		US-5,493,677	02/20/1996	Balogh, et.al	
		US-5,530,759	06/25/1996	Braudaway, et.al	
		US-5,606,609	02/25/1997	Houser, et.al.	
		US-5,613,004	03/18/1997	Cooperman, et.al.	
		US-5,617,119	04/01/1997	Briggs, et.al	
		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		WO 99/62044	12/02/1999	Handel, Theodore et.al		
		WIPO 96/29795	09/26/1996	Micali		
		WIPO 97/24833	07/10/1997	Micali		
		EP 0649261	04/19/1995	Enari		
		NL 100523	09/1998			

Examiner  
Signature

/Paul Callahan/

Date  
Considered

08/04/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 3 of 3

Application Number

Filing Date

First Named Inventor

Art Unit

Examiner Name

Attorney Docket Number

08/999,766

July 23, 1997

Scott A. MOSKOWITZ et al.

2197 2437

Paul E. CALLAHAN

80410.0009

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-4,528,588	07/09/1985	Lofberg	
		US-5,832,119	11/03/1998	Rhoads	
		US-5,859,920	01/12/1999	Daly et.al	
		US-4,979,210	12/18/1990	Nagata et.al	
		US-5,774,452	06/30/1998	Wolosewicz	
		US-4,405,829	09/20/1983	Rivest et.al	
		US-6,330,335	12/11/2001	Rhoads	
		US-3,986,624	10/19/1976	Cates Jr. et.al	
		US-5,363,448	11/08/1994	Koopman et.al	
		US-5,568,570	10/22/1996	Rabbani	
		US-5,636,292	06/03/1997	Rhoads	
		US-4,972,471	11/20/1990	Gross et.al.	
		US-5,893,067	04/06/1999	Bender et.al.	
		US-5,689,587	11/18/1997	Bender et.al.	
		US-3,984,624	10/05/1976	Waggener	
		US-4,038,596	07/26/1977	Lee	
		US-4,200,770	04/29/1980	Hellman, et.al.	
		US-4,218,582	08/19/1980	Hellman, et.al.	
		US-4,424,414	01/03/1984	Hellman, et.al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		WO 9744736	11/27/1997	Wehrenberg		
		WO 9952271	10/14/1999	Moskowitz		
		WO 9963443	12/09/1999	Ho,Anthony Tung Shuen		

Examiner  
Signature

/Paul Callahan/

Date  
Considered

08/04/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 4 of 13

Com

Application Number

Filing Date

First Named Inventor

Art Unit

Examiner Name

Attorney Docket Number

08/999,766

July 23, 1997

Scott A. MOSKOWITZ et al.

~~2197~~ 2437

Paul E. CALLAHAN

80410.0009

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-5,640,569	06/17/1997	Miller, et al.	
		US-5,659,726	08/19/1997	Sandford, II, et al.	
		US-5,664,018	09/02/1997	Leighton	
		US-5,687,236	11/11/1997	Moskowitz, et al.	
		US-5,734,752	03/31/1998	Knox	
		US-5,745,569	04/28/1998	Moskowitz, et al.	
		US-5,506,795	04/09/1996	Yamakawa	
		US-5,680,462	10/21/1997	Miller, et al.	
		US-5,696,828	12/09/1997	Koopman, Jr.	
		US-5,740,244	04/14/1998	Indeck, et al.	
		US-5,751,811	05/12/1998	Koopman, Jr.	
		US-5,757,923	05/26/1998	Koopman, Jr.	
		US-5,889,868	03/30/1999	Moskowitz, et al.	
		US-6,208,745	03/27/2001	Florenio, et al.	
		US-6,285,775	09/04/2001	Wu, et al.	
		US-6,385,329	05/07/2002	Sharma, et al.	
		US-6,530,021	03/04/2003	Epstein, et al.	
		US-6,425,081	07/23/2002	Iwamura	
		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
Signature

/Paul Callahan/

Date  
Considered

08/04/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 5 of 13

Complete if known

Application Number

08/999,766

Filing Date

July 23, 1997

First Named Inventor

Scott A. MOSKOWITZ et al.

Art Unit

~~2107~~ 2437

Examiner Name

Paul E. CALLAHAN

Attorney Docket Number

80410.0009

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-6,522,769	02/18/2003	Rhoads, et.al.	
		US-2005/0160271	07/21/2005	Brundage, et.al.	
		US-6,665,489	12/16/2003	Collart	
		US-2004/0128514	07/01/2004	Rhoads	
		US-2004/0037449	02/26/2004	Davis, et.al.	
		US-6,823,455	11/23/2004	Macy, et.al.	
		US-2003/0133702	07/17/2003	Collart	
		US-6,668,246	12/23/2003	Yeung, et.al.	
		US-6,405,203	06/11/2002	Collart	
		US-6,141,754	10/31/2000	Choy	
		US-6,493,457	12/10/2002	Quackenbush	
		US-5,629,980	05/13/1997	Stefik, et.al.	
		US-5,943,422	08/24/1999	Van Wie, et.al.	
		US-5,636,276	06/03/1997	Brugger	
		US-5,341,429	08/23/1994	Stringer, et.al.	
		US-6,754,822	06/22/2004	Zhao	
		US-6,131,162	10/10/2000	Yoshiura et.al.	
		US-7,058,570	06/06/2006	Yu, et.al.	
		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
Signature

/Paul Callahan/

Date  
Considered

08/04/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 6 of 13

Com

Application Number

08/999,766

Filing Date

July 23, 1997

First Named Inventor

Scott A. MOSKOWITZ et al.

Art Unit

~~2197~~ 2437

Examiner Name

Paul E. CALLAHAN

Attorney Docket Number

80410.0009

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-5,930,369	07/27/1999	Cox, et al.	
		US-6,415,041	07/02/2002	Oami, et al.	
		US-6,141,753	10/31/2000	Zhao, et al.	
		US-2002/0097873	07/25/2002	Petrovic	
		US-6,785,815	08/31/2004	Serret-Avila, et al.	
		US-6,523,113	02/18/2003	Wehrenberg	
		US-6,233,347	05/15/2001	Chen, et al.	
		US-6,233,684	05/15/2001	Stefik, et al.	
		US-2006/0013395	01/19/2006	Brundage, et al.	
		US-7,043,050	05/09/2006	Yuval	
		US-5,809,160	09/15/1998	Powell, et al.	
		US-6,272,634	08/07/2001	Tewfik, et al.	
		US-6,282,650	08/28/2001	Davis	
		US-6,557,103	04/29/2003	Boncelet, Jr., et al.	
		US-2003/0126445	07/03/2003	Wehrenberg	
		US-6,978,370	12/20/2005	Kocher	
		US-2006/0005029	01/05/2006	Petrovic, et al.	
		US-6,278,791	08/21/2001	Honsinger, et al.	
		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
Signature

/Paul Callahan/

Date  
Considered

08/04/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Co:

Application Number

08/999,766

Filing Date

July 23, 1997

First Named Inventor

Scott A. MOSKOWITZ et al.

Art Unit

2137 2437

Examiner Name

Paul E. CALLAHAN

Attorney Docket Number

80410.0009

Sheet

7

of

13

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-6,061,793	05/09/2000	Tewfik, et al.	
		US-5,809,139	09/15/1998	Grirod, et al.	
		US-5,848,155	12/08/1998	Cox	
		US-5,915,027	06/22/1999	Cox, et al.	
		US-5,940,134	08/17/1999	Wirtz	
		US-5,991,426	11/23/1999	Cox, et al.	
		US-6,069,914	05/30/2000	Cox	
		US-5,943,422	08/24/1999	Van Wie, et al.	
		US-6,539,475	03/25/2003	Cox, et al.	
		US-6,310,962	10/30/2001	chung, et al.	
		US-6,154,571	11/28/2000	Cox, et al.	
		US-4,969,204	11/06/1990	Jones, et al.	
		US-6,687,683	02/03/2004	Harada, et al.	
		US-6,373,892	04/16/2002	chien, et al.	
		US-5,870,474	02/09/1999	Wasilewski, et al.	
		US-5,418,713	05/23/1995	Allen	
		US-6,078,664	06/20/2000	Moskowitz, et al.	
		US-6,009,176	12/28/1999	Gennaro, et al.	
		US-6,081,587	06/27/2000	Hoffstein, et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
Signature

/Paul Callahan/

Date  
Considered

08/04/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 8 of 13

Cor. 08/999,766

Application Number

July 23, 1997

Filing Date

Scott A. MOSKOWITZ et al.

First Named Inventor

~~2437~~ 2437

Art Unit

Paul E. CALLAHAN

Examiner Name

80410.0009

Attorney Docket Number

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-6,598,162	07/22/2003	Moskowitz	
		US-6,275,988	08/14/2001	Nagashima, et al.	
		US-6,051,029	04/18/2000	Paterson, et al.	
		US-5,917,915	06/29/1999	Hirose	
		US-6,775,772	08/10/2004	Binding, et al.	
		US-6,668,246	12/23/2003	Yeung, et al.	
		US-6,351,765	02/26/2002	Pietropaolo, et al.	
		US-6,049,838	04/11/2000	Miller, et al.	
		US-5,398,285	03/14/1995	Borgelt, et al.	
		US-5,737,733	04/07/1998	Eller	
		US-2002/0103883	08/01/2002	Haverstock, et al.	
		US-5,673,316	09/30/1997	Auerbach, et al.	
		US-6,647,424	11/11/2003	Pearson, et al.	
		US-6,977,894	12/20/2005	Achilles, et al.	
		US-6,453,252	09/17/2002	Laroche	
		US-5,077,665	12/31/1991	Silverman, et al.	
		US-5,136,581	08/04/1992	Muehrcke	
		US-5,341,477	08/23/1994	Pitkin, et al.	
		US-5,581,703	12/03/1996	Baughner, et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

Examiner  
Signature

/Paul Callahan/

Date  
Considered

08/04/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	08/999,766
Filing Date	July 23, 1997
First Named Inventor	Scott A. MOSKOWITZ et al.
Art Unit	<del>2407</del> 2437
Examiner Name	Paul E. CALLAHAN
Attorney Docket Number	80410.0009

Sheet 4 of 13**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-5,548,579	08/20/1996	Lebrun, et al.	
		US-5,905,975	05/18/1999	Ausubel	
		US-6,457,058	09/24/2002	Ullum et al.	
		US-6,381,618	04/30/2002	Jones et al.	
		US-2002/0026343	02/28/2002	Duenke	
		US-6,230,268	05/08/2001	Miwa et al.	
		US-6,199,058	03/06/2001	Wong et al.	
		US-5,920,900	07/06/1999	Poole et al.	
		US-5,884,033	03/16/1999	Duvall et al.	
		US-5,478,990	12/26/1995	Montanari et al.	
		US-6,430,302	08/06/2002	Rhoads	
		US-6,725,372	04/20/2004	Lewis et al.	
		US-6,606,393	08/12/2003	Xie et al.	
		US-6,584,125	06/24/2003	Katto	
		US-6,442,283	08/27/2002	Tewfik et al.	
		US-6,377,625	04/23/2002	Kim	
		US-6,282,300	08/28/2001	Bloom et al.	
		US-6,205,249	03/20/2001	Moskowitz	
		US-6,029,126	02/22/2000	Maivar	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
Signature

/Paul Callahan/

Date  
Considered

08/04/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 10 of 13

Col

Application Number

08/999,766

Filing Date

July 23, 1997

First Named Inventor

Scott A. MOSKOWITZ et al.

Art Unit

2107 2437

Examiner Name

Paul E. CALLAHAN

Attorney Docket Number

80410.0009

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-5,754,697	05/19/1998	Fu et al.	
		US-5,479,210	12/26/1995	Cawley et al.	
		US-3,947,825	03/30/1976	Cassada	
		US-5,903,721	05/11/1999	Sixtus	
		US-5,790,677	08/04/1998	Fox et al.	
		US-5,243,515	09/07/1993	Clearwater	
		US-4,339,134	07/13/1982	Macheel	
		US-4,827,508	05/02/1989	Shear	
		US-4,896,275	01/23/1990	Jackson	
		US-4,977,594	12/11/1990	Shear	
		US-5,050,213	09/17/1991	Shear	
		US-5,369,707	11/29/1994	Follendore, III	
		US-5,406,627	04/11/1995	Thompson et al.	
		US-5,410,598	04/25/1995	Shear	
		US-5,469,536	11/21/1995	Blank	
		US-5,497,419	03/05/1996	Hill	
		US-5,513,261	04/30/1996	Maher	
		US-5,530,739	06/25/1996	Okada	
		US-5,598,470	01/28/1997	Cooper et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
Signature

/Paul Callahan/

Date  
Considered

08/04/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 11 of 13Com-~~plete~~ ~~if known~~

Application Number

08/999,766

Filing Date

July 23, 1997

First Named Inventor

Scott A. MOSKOWITZ et al.

Art Unit

~~2197~~ 2437

Examiner Name

Paul E. CALLAHAN

Attorney Docket Number

80410.0009

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-5,625,690	04/29/1997	Michel et al.	
		US-5,633,932	05/27/1997	Davis et al.	
		US-5,719,937	02/17/1998	Warren et al.	
		US-5,737,416	04/07/1998	Cooper et al.	
		US-5,765,152	06/09/1998	Erickson	
		US-5,799,083	08/25/1998	Brothers et al.	
		US-5,973,731	10/26/1999	Schwab	
		US-5,894,521	04/13/1999	Conley	
		US-5,905,800	05/18/1999	Moskowitz et al.	
		US-5,963,909	10/05/1999	Warren et al.	
		US-5,974,141	10/26/1999	Saito	
		US-5,999,217	12/07/1999	Berners-Lee	
		US-6,041,316	03/21/2000	Allen	
		US-6,081,251	06/27/2000	Sakai et al.	
		US-6,278,780	08/21/2001	Shimada	
		US-6,301,663	10/09/2001	Kato et al.	
		US-6,240,121	05/29/2001	Senoh	
		US-			
		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

Examiner  
Signature

/Paul Callahan/

Date  
Considered

08/04/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet PL of 13

Co

08/999,766

Application Number

July 23, 1997

Filing Date

Scott A. MOSKOWITZ et al.

First Named Inventor

~~2197~~ 2437

Art Unit

Paul E. CALLAHAN

Examiner Name

80410.0009

Attorney Docket Number

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 6,088,455	07/11/2000	Logan et al.	
		US- 5,634,040	05/27/1997	Her et al.	
		US- 6,381,747	04/30/2002	Wonfor et al.	
		US- 4,969,204	11/06/1990	Melnchuck et al.	
		US- 6,966,002	11/15/2005	Tomubia-Saez	
		US- 6,263,313	07/17/2001	Milstead, et al.	
		US- 7,093,295	08/15/2006	Saito	
		US- 6,587,837	07/01/2003	Spagna et al.	
		US- 6,931,534	08/16/2005	Jandel et al.	
		US- 2004/0049695	03/11/2004	Choi et al.	
		US- 2004/0083369	07/25/2003	Erlingsson et al.	
		US- 5,677,952	10/14/1997	Blakely et al.	
		US- 5,768,396	06/16/1998	Sone	
		US- 7,266,697	09/04/2007	Kirovski et al.	
		US- 5,136,646	08/04/1992	Haber et al.	
		US- 5,136,647	08/04/1992	Haber et al.	
		US- 7,206,649	04/17/2007	Kirovski et al.	
		US- 6,532,284	03/11/2003	Walker et al.	
		US- 7,020,285	03/28/2006	Kirovski et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>

Examiner Signature	/Paul Callahan/	Date Considered	08/04/2008
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		Col 08/999,766	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	
		Filing Date	
		First Named Inventor	
		Art Unit	
		Examiner Name	
Sheet 13 of 13	Attorney Docket Number 80410.0009		

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 7,046,808	05/12/2006	Metois et al.	
		US- 6,430,301	08/06/2002	Petrovic	
		US- 2004/0059918	03/25/2004	Xu	
		US- 6,345,100	02/05/2002	Levine	
		US- 2004/0093521	05/13/2004	Hamadeh et al.	
		US- 2007/0083467	04/12/2007	Lindahl et al.	
		US- 7,231,524	06/12/2007	Burns	
		US- 2005/0246554	11/03/2005	Batson	
		US- 6,668,325	02/23/2003	Collberg et al.	
		US- 7,050,396	05/23/2006	Cohen et al.	
		US- 6,842,862	01/11/2005	Chow et al.	
		US- 7,051,208	05/23/2006	Venkatesan et al.	
		US- 7,240,210	07/03/2007	Michak et al.	
		US- 7,150,003	12/12/2006	Naumovich et al.	
		US- 6,389,538	05/14/2002	Gruse et al.	
		US- 5,513,126	04/30/1996	Harkins et al.	
		US- 5,657,461	08/12/1997	Harkins et al.	
		US- 4,390,898	06/28/1983	Bond et al.	
		US- 5,471,533	11/28/1995	Wang et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>4</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

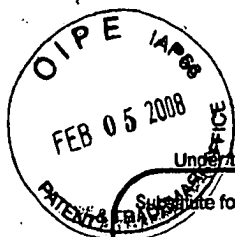
Examiner Signature	/Paul Callahan/	Date Considered	08/04/2008
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number		08/999,766
Filing Date		July 23, 1997
First Named Inventor		Scott A. MOSKOWITZ et al.
Art Unit		2197 2437
Examiner Name		Paul E. CALLAHAN
Attorney Docket Number		80410:0009

Sheet

1

of

7

## **NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Schneier, Bruce, Applied Cryptography, 2nd Ed., John Wiley & Sons, pp. 9-10, 1996	
		Menezes, Alfred J., Handbook of Applied Cryptography, CRC Press, p. 46, 1997	
		Merriam-Webster's Collegiate Dictionary, 10th Ed., Merriam Webster, Inc., p.207 1997	
		Brealy, et al., Principles of Corporate Finance, "Appendix A-Using Option Valuation Models", 1984, pp. 448-449	
		Copeland, et al., Real Options: A Practitioner's Guide, 2001 pp. 106-107, 201-202, 204-208.	
		Sarkar, M. "An Assessment of Pricing Mechanisms for the Internet-A Regulatory Imperative", presented MIT Workshop on Internet Economics, Mar. 1995. <a href="http://www.press.umich.edu/ien/works/SarkAsses.html">http://www.press.umich.edu/ien/works/SarkAsses.html</a> on	
		Crawford, D.W. "Pricing Network Usage: A Market for Bandwidth of Market Communication?" presented MIT Workshop on Internet Economics, Mar. 1995 <a href="http://www.press.umich.edu/ien/works/CrawMarket.html">http://www.press.umich.edu/ien/works/CrawMarket.html</a> on March	
		LOW, S.H., "Equilibrium Allocation and Pricing of Variable Resources Among User-Suppliers", 1988. <a href="http://www.citeseer.nj.nec.com/366503.html">http://www.citeseer.nj.nec.com/366503.html</a>	
		Caronni, Germano, "Assuring Ownership Rights for Digital Images", published proceeds of reliable IT systems, v15 '95, H.H. Bruggemann and W. Gerhardt-Hackel (Ed.) Viewinto Publishing Company Germany 1995	
		Zhao, Jian. "A WWW Service to Embed and Prove Digital Copyright Watermarks", Proc. of the european conf. on Multimedia Applications, Services & Techniques Louvain-la-Neuve Belgium May 1996	

Examiner Signature	/Paul Callahan/	Date Considered	08/04/2008
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	
		Filing Date	08/999,766
		First Named Inventor	July 23, 1997 Scott A. MOSKOWITZ et al.
		Art Unit	<del>2197</del> 2437
		Examiner Name	Paul E. CALLAHAN
		Attorney Docket Number	80410.0009
Sheet	2	of	7

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Gruhl, Daniel et al., Echo Hiding. In Proceeding of the Workshop on Information Hiding. No. 1174 in Lecture Notes in Computer Science, Cambridge, England (May/June 1996)	
		Oomen, A.W.J. et al., A Variable Bit Rate Buried Data Channel for Compact Disc, J.Audio Eng.Sc., Vol. 43, No. 1/2, pp. 23-28 (1995).	
		Ten Kate, W. et al., A New Surround-Stereo-Surround Coding Techniques, J. Audio Eng.Soc., Vol. 40, No. 5, pp. 376-383 (1992)	
		Gerzon, Michael et al., A High Rate Buried Data Channel for Audio CD, presentation notes, Audio Engineering Soc. 94th Convention (1993).	
		Sklar, Bernard, Digital Communications, pp. 601-603 (1988)	
		Jayant, N.S. et al., Digital Coding of Waveforms, Prentice Hall Inc., Englewood Cliffs, NJ, pp. 486-509 (1984)	
		Bender, Walter R. et al., Techniques for Data Hiding, SPIE Int. Soc. Opt. Eng., Vol. 2420, pp. 164-173, 1995.	
		Zhao, Jian et al., Embedding Robust Labels into Images for Copyright Protection, (xp 000571976), pp. 242-251, 1995.	
		Menezes, Alfred J., Handbook of Applied Cryptography, CRC Press, p. 175, 1997.	
		Schneier, Bruce, Applied Cryptography, 1st Ed., pp. 67-68, 1994.	

Examiner Signature	/Paul Callahan/	Date Considered	08/04/2008
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number			
		Filing Date	08/999,766		
		First Named Inventor	July 23, 1997 Scott A. MOSKOWITZ et al.		
		Art Unit	<del>2407</del> 2437		
		Examiner Name	Paul E. CALLAHAN		
Sheet	3	of	7	Attorney Docket Number	80410.0009

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		ten Kate, W. et al., "Digital Audio Carrying Extra Information", IEEE, CH 2847-2/90/0000-1097, (1990)	
		van Schyndel, et al. A digital Watermark, IEEE Int'l Computer Processing Conference, Austin, TX, Nov 13-16, 1994, pp. 86-90	
		Smith, et al. Modulation and Information Hiding in Images, Springer Verlag, 1st Int'l Workshop, Cambridge, UK, May 30-June 1, 1996, pp. 207-227	
		Kutter, Martin et al., Digital Signature of Color Images Using Amplitude Modulation, SPIE-E197, vol. 3022, pp. 518-527 1997	
		Puate, Joan et al., Using Fractal Compression Scheme to Embed a Digital Signature into an Image, SPIE-96 Proceedings, vol. 2915, Mar. 1997, pp. 108-118.	
		Swanson, Mitchell D., et al., Transparent Robust Image Watermarking, Proc. of the 1996 IEEE Int'l Conf. on Image Processing, Vol. 111, 1996, pp. 211-214	
		Swanson, Mitchell D., et al. Robust Data Hiding for Images, 7th IEEE Digital Signal Processing Workshop, Leon, Norway. Sept. 1-4, 1996, pp. 37-40	
		Zhao, Jian et al., Embedding Robust Labels into Images for Copyright Protection, Proceeding of the Know Right '95 Conference, pp. 242-251. 1995	
		Koch, E., et al., Towards Robust and Hidden Image Copyright Labeling, 1995 IEEE Workshop on Nonlinear Signal and Image Processing, Jun. 1995 Neos Marmaras pp. 4	
		Van Schyandel, et al., Towards a Robust Digital Watermark, Second Asian Image Processing Conference, Dec. 6-8, 1995, Singapore, Vol. 2, pp. 504-508	

Examiner Signature	/Paul Callahan/	Date Considered	08/04/2008
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	08/999,766
		Filing Date	July 23, 1997
		First Named Inventor	Scott A. MOSKOWITZ et al.
		Art Unit	<del>2137</del> 2437
		Examiner Name	Paul E. CALLAHAN
		Attorney Docket Number	80410.0009
Sheet	4	of	7

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Tirkel, A.Z., A Two-Dimensional Digital Watermark, DICTA '95, Univ. of Queensland, Brisbane, Dec. 5-8, 1995, pp. 7	
		Tirkel, A.Z., Image Watermarking-A Spread Spectrum Application, ISSSTA '96, Sept. 96, Mainz, German, pp. 6.	
		O'Ruanaidh, et al. Watermarking Digital Images for Copyright Protection, IEEE Proceedings, Vol. 143, No. 4, Aug. 96, pp. 250-256.	
		Cox, et al., Secure Spread Spectrum Watermarking for Multimedia, NEC Research Institute, Techinal Report 95-10, pp. 33 1995	
		Kahn, D., The Code Breakers, The MacMillan Company, 1969, pp. xiii, 81-83, 513, 515, 522-526, 863.	
		Boney, et al., Digital Watermarks for Audio Signals, EVSIPCO, 96, pp. 473-480. 1996	
		Dept. of Electrical Engineering, Del Ft University of Technology, Del ft The Netherlands, Cr.C. Langelaar et al., Copy Protection for Mulitmedia Data based on Labeling Techniques, July 1996, 9 pp	
		F. Hartung, et al., Digital Watermarking of Raw and Compressed Video, SPIE Vol. 2952, pp. 205-213. 1996	
		Craver, et al., Can Invisible Watermarks Resolve Rightful Ownerships? IBM Research Report, RC 20509 (July 25, 1996) 21 pp.	
		Press, et al., Numerical Recipes In C, Cambridge Univ. Press, 1988, pp. 398-417.	

Examiner Signature	/Paul Callahan/	Date Considered	08/04/2008
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number

Filing Date

First Named Inventor

Art Unit

Examiner Name

Attorney Docket Number

08/999,766

July 23, 1997

Scott A. MOSKOWITZ et al.

~~2137~~ 2437

Paul E. CALLAHAN

80410.0009

Sheet

5

of

7

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Pohlmann, Ken C., Principles of Digital Audio, 3rd Ed., 1995, pp. 32-37, 40-48, 138, 147-149, 332, 333, 364, 499-501, 508-509, 564-571.	
		Pohlmann, Ken C., Principles of Digital Audio, 2nd Ed., 1991, pp. 1-9, 19-25, 30-33, 41-48, 54-57, 86-107, 375-387.	
		Schneier, Bruce, Applied Cryptography, John Wiley & Sons, inc., New York, 1994, pp. 68, 69, 387-392, 1-57, 273-275, 321-324.	
		Boney, et al., Digital Watermarks for Audio Signals, Proceedings of the International Conf. on Multimedia Computing and Systems, June 17-23, 1996, Hiroshima, Japan. 0-8186-7436-9/96 pp. 473-480.	
		Johnson, et al., Transform Permuted Watermarking for Copyright Protection of Digital Video, IEEE Globecom 1998, Nov 8-12, 1998, New York, New York. Vol. 2, 1998, pp. 684-689 (ISBN 0-7803-4985-7).	
		Rivest, et al., "Pay Word and Micromint: Two Simple Micropayment Schemes," MIT Laboratory for Computer Science, Cambridge, MA, May 7, 1996 pp. 1-18.	
		Bender, et al., Techniques for Data Hiding, IBM Systems Journal, Vol. 35, Nos 3 & 4, 1996, pp. 313-336.	
		Moskowitz, Bandwith as Currency, IEEE Multimedia, Jan-Mar 2003, pp. 14-21.	
		Moskowitz, Multimedia Security Technologies for Digital Rights Management, 2006, Academic Press, "Introduction-Digital Rights Management" pp. 3-22.	

Examiner  
Signature

/Paul Callahan/

Date  
Considered

08/04/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number			
		Filing Date	08/999,766 July 23, 1997		
		First Named Inventor	Scott A. MOSKOWITZ et al.		
		Art Unit	2197 2437		
		Examiner Name	Paul E. CALLAHAN		
Sheet	6	of	7	Attorney Docket Number	80410.0009

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Tomsich, et al., "Towards a secure and de-centralized digital watermarking infrastructure for the protection of Intellectual Property", in <u>Electronic Commerce and Web Technologies. Proceedings (ECWEB) 2000</u>	
		Moskowitz, "What is Acceptable Quality in the Application of Digital Watermarking: Trade-offs of Security, Robustness and Quality", <u>IEEE Computer Society Proceedings of ITCC 2002 April 10 2002 pp 80-84</u>	
		Lemma, et al. "Secure Watermark Embedding through Partial Encryption", <u>International Workshop on Digital Watermarking ("IWDW" 2006). Springer Lecture Notes in Computer Science. 2006. (to appear) 13</u>	
		Kocher, et al., "Self Protecting Digital Content", Technical Report from the CRI Content Security Research Initiative, Cryptography Research, Inc. 2002-2003. 14 pages.	
		Sirbu, M. et al., "Net Bill: An Internet Commerce System Optimized for Network Delivered Services", <u>Digest of Papers of the Computer Society Computer Conference (Spring) 5 March 1995 pp 20-25 vol. CONF40</u>	
		Schunter, M. et al., "A Status Report on the SEMPER framework for Secure Electronic Commerce", <u>Computer Networks and ISDN Systems, 30 Sept 1998 pp 1501-1510 Vol 30 No 16-18 NL North Holland</u>	
		Konrad, K. et al., "Trust and Electronic Commerce-more than a technical problem," <u>Proceedings of the 18th IEEE Symposium on Reliable Distributed Systems 19-22 October 1999 pp 360-365 Lausanne</u>	
		Kini, a. et al., "Trust in Electronic Commerce: Definition and Theoretical Considerations", <u>Proceedings of the 31st Hawaii Int'l Conf on System Sciences (Cat. No. 98TB100216). 6-9 January 1998. pp. 51-61. Los</u>	
		Steinauer D. D., et al., "Trust and Traceability in Electronic Commerce", <u>Standard View, Sept 1997, pp 118-124, vol. 5 No. 3, ACM, USA</u>	
		Hartung, et al. "Multimedia Watermarking Techniques", <u>Proceedings of the IEEE, Special Issue, Identification &amp; Protection of Multimedia Information, pp 1079-1107 July 1999 Vol 87 No 7 IEEE</u>	

Examiner Signature	/Paul Callahan/	Date Considered	08/04/2008
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	08/999,766
		Filing Date	July 23, 1997
		First Named Inventor	Scott A. MOSKOWITZ et al.
		Art Unit	<del>2187</del> 2437
		Examiner Name	Paul E. CALLAHAN
Sheet <u>7</u>	of <u>7</u>	Attorney Docket Number	80410.0009

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Rivest, et al., PayWord and MicroMint: Two simple micropayment schemes, MIT Laboratory for Computer Science, Cambridge, MA 02139, April 27, 2001, pp. 1-18.	
		Horowitz, et al., The Art of Electronics, 2nd Ed., 1989, pp.7.	
		Delaigle, J.-F., et al. "Digital Watermarking," Proceedings of the SPIE, vol. 2659, Feb 1, 1996, pp. 99-110 (Abstract).	
		Schneider, M., et al. "Robust Content Based Digital Signature for Image Authentication," Proceedings of the International Conference on Image Processing (IC. Lausanne), Sept. 16-19, 1996, pp. 227-230. IEEE ISBN:	
		Cox, I. J., et al. "Secure Spread Spectrum Watermarking for Multimedia," IEEE Transactions on Image Processing, Vol. 6 No. 12, Dec. 1, 1997, pp. 1673-1686.	
		Wong, Ping Wah. "A Public Key Watermark for Image Verification and Authentication," IEEE International Conference on Image Processing, Vol. 1 Oct 4-7, 1998, pp. 455-459.	
		Fabien A.P. Petitcolas, Ross J. Anderson and Markkus G. Kuhn, "Attacks on Copyright Marking Systems," LNCS, Vol. 1525, April 14-17, 1998, pp. 218-238. ISBN: 3-540-65386-4.	
		Ross Anderson, "Stretching the Limits of Steganography," LNCS, Vol. 1174, May/June 1996, 10 pages, ISBN: 3-540-61996-8.	
		Joseph J.K. O'Ruanaidh and Thierry Pun, "Rotation, Scale and Translation Invariant Digital Image Watermarking", pre-publication, Summer 1997, 4 pages.	
		Joseph J.K. O'Ruanaidh and Thierry Pun, "Rotation, Scale and Translation Invariant Digital Image Watermarking", Submitted to Signal Processing, August 21, 1997, 19 pages.	

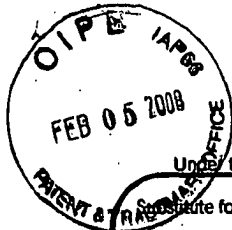
Examiner Signature	/Paul Callahan/	Date Considered	08/04/2008
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./



PTO/SB/08B (04-07)

Approved for use through 09/30/2007. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	
Filing Date	08/999,766 July 23, 1997
First Named Inventor	Scott A. MOSKOWITZ et al.
Art Unit	2437 2437
Examiner Name	Paul E. CALLAHAN
Attorney Docket Number	80410.0009

Sheet 1 of 2

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		PCT International Search Report, completed Sept. 13, 1995; authorized officer Huy D. Vu (PCT/US95/08159) (2 pages)	
		PCT International Search Report, completed June 11, 1996; authorized officer Salvatore Cangialosi (PCT/US96/10257) (4 pages)	
		Supplementary European Search Report, completed Mar. 5, 2004; authorized officer J. Hazel (EP 96 91 9405) (1 page)	
		PCT International Search Report, completed April 4, 1997; authorized officer Bernarr Earl Gregory (PCT/US97/00651) (1 page)	
		PCT International Search Report, completed May 6, 1997; authorized officer Salvatore Cangialosi (PCT/US97/00652) (3 pages)	
		PCT International Search Report, completed Oct. 23, 1997; authorized officer David Cain (PCT/US97/11455) (1 page)	
		PCT International Search Report, completed July 12, 1999; authorized officer R. Hubeau (PCT/US99/07262) (3 pages)	
		PCT International Search Report, completed June 30, 2000; authorized officer Paul E. Callahan (PCT/US00/06522) (7 pages)	
		Supplementary European Search Report, completed June 27, 2002; authorized officer M. Schoeyer (EP 00 91 9398) (1 page)	
		PCT International Search Report, date of mailing Mar. 15, 2001; authorized officer Marja Brouwers (PCT/US00/18411) (5 pages)	

Examiner Signature	/Paul Callahan/	Date Considered	08/04/2008
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Sheet	2	of	2	Application Number	08/999,766
				Filing Date	July 23, 1997
				First Named Inventor	Scott A. MOSKOWITZ et al.
				Art Unit	2137 2437
				Examiner Name	Paul E. CALLAHAN
				Attorney Docket Number	80410.0009

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		PCT International Search Report, completed July 20, 2001; authorized officer A. Sigolo (PCT/US00/18411) (5 pages)	
		PCT International Search Report, completed March 20, 2001; authorized officer P. Corcoran (PCT/US00/33126) (6 pages)	
		PCT International Search Report, completed January 26, 2001; authorized officer A. Sigolo (PCT/US00/21189) (3 pages)	
		European Search Report, completed October 15, 2007; authorized officer James Hazel (EP 07 11 2420) (9 pages)	

Examiner Signature	/Paul Callahan/	Date Considered	08/04/2008
--------------------	-----------------	-----------------	------------

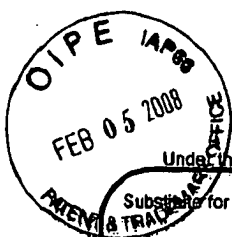
\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Complete if Known

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	08/999,766
Filing Date	July 23, 1997
First Named Inventor	Scott A. MOSKOWITZ et al. 2437
Art Unit	2107
Examiner Name	Paul E. CALLAHAN
Attorney Docket Number	80410.0009

Sheet 1 of 1

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		STAIN (The Singles 1996-2006), Warner Music - Atlantic, Pre-Release CD image, 2006, 1 page	
		Arctic Monkeys (Whatever People Say I Am, That's What I'm Not), Domino Recording Co. Ltd., Pre-Release CD image, 2005, 1 page	
		Radiohead ("Hail To The Thief"), EMI Music Group - Capitol, Pre-Release CD image, 2003, 1 page.	

Examiner Signature	/Paul Callahan/	Date Considered	08/04/2008
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.C./